## PATENT COOPERATION TREATY

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	¥ .	ion of Transmittal of International		
PCT 21076Y	1		Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/n	ionin/year)	Priority date (day/month/year)		
PCT/US03/12456	08 April 2003 (08.04.2003)		12 April 2002 (12.04.2002)		
international Patent Classification (IPC)	or national classification and IPC				
IPC(7): A61K 31/439; C07D 221/22; A	A61P 35/00 and US Cl.: 514/295;	546/93			
Applicant					
MERCK & CO., INC					
This international prelim	inary examination report has b	een prepared by	this International Preliminary		
Examining Authority and	l is transmitted to the applicant	according to A	rticle 36.		
2. This REPORT consists o	f a total of 🔾 sheets, including	ng this cover she	eet.		
This report is also a	commanied by ANNEXES i	e sheets of the	description, claims and/or drawings		
			sheets containing rectifications made		
before this Authorit	y (see Rule 70.16 and Section	607 of the Adm	inistrative Instructions under the PCT).		
These annexes consist of	a total of sheets.		rno no 1		
<del></del>			EPO - DG 1		
3. This report contains indic	cations relating to the followin	g items:	0 2 12 200%		
I Basis of the re	port.		0 3. 12. 2004		
	<b>r</b>				
			107)		
III Non-establishm	nent of report with regard to n	ovelty, inventiv	e step and industrial applicability		
IV Lack of unity	of invention				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial					
<b></b>	itations and explanations supp	7	<del>•</del> ·		
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observations on the international application					
viii [_] Certain observ	аполе он те ппентаполагарр	manun			
Date of submission of the demand	Гра	te of completion	of this report		
vacamanava va um continua		-	-		
23 June 2003 (23.06.2003)		September 2004 (	(10.09.2004)		
Name and mailing address of the IPEA	/US Au	thorized officer	W N.		
Mail Stop PCT, Attn: 1PEA/US Commissioner for Patents	1		Sella Collans		
P.O. Box 1450 Alexandria, Virginia 22313-1450		elyn Huang	ILLU CICLO		
Facsimile No. (703) 305-3230	14	ephone No. 103	-308-1235		
form PCT/IPEA/409 (cover sheet)(July	1998)		7		

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International	app	lication	No.

[ <u>.</u>	. Basis of the report						
١.	With	regard to the elements of the international application:*					
	$\boxtimes$	the international application as originally filed.					
	冈	the description:					
	~_3	pages 1-71 as originally filed					
		pages NONE , filed with the demand					
		pages NONE , filed with the letter of					
	$\boxtimes$	the claims:					
		pages 72-83 , as originally filed					
		pages NONE, as amended (together with any statement) under Article 19					
		pages NONE, filed with the demand					
	_	pages NONE , filed with the letter of					
	$\sqcup$	the drawings:					
		pages NONE as originally filed					
		pages NONE , filed with the demand pages NONE , filed with the letter of .					
	ш	the sequence listing part of the description:					
		pages NONE as originally filed pages NONE filed with the demand					
		pages NONE , filed with the demand pages NONE , filed with the letter of .					
	With	regard to the language, all the elements marked above were available or furnished to this Authority in the					
	lange	tage in which the international application was filed, unless otherwise indicated under this item.					
	Thes	e elements were available or furnished to this Authority in the following language which is:					
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).					
		the language of publication of the international application (under Rule 48.3(b)).					
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).					
١.		a regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in printed form.					
	Ħ	filed together with the international application in computer readable form.					
	H	-					
	H	furnished subsequently to this Authority in written form.					
	H	furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	Ш	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
		The amendments have resulted in the cancellation of:					
		the description, pages NONE					
		the claims, Nos. NONE					
		the drawings, sheets/fig NONE					
i.		<del>_</del>					
٠.	ب	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
	Replac	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in					
hi	s repo	rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rides 70.16 and 70.17).  eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					
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Form PCT/IPEA/409 (Box I) (July 1998)





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/12456

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N)	Claims	3-5, 7-21	YES			
	Claims	1, 2, 6	NO			
Introdius Chan (IC)	Claima	3 6 2 21	VIII			
Inventive Step (IS)		3-5, 7-21 1, 2, 6	YES			
	V	3,2, 4				
Industrial Applicability (IA)	Claims	1-21	YES			
	Claims	NONE	NO			
2. CITATIONS AND EXPLANATIONS Claims 1, 2, 6 lack novelty under PCT Article 33(2) as being anticipated by US 4,332, 810. The compounds of Examples 1-5 and the composition thereof, are encompassed by the instant claims.  Claims 1, 2, 6 lack novelty under PCT Article 33(2) as being anticipated by BELANGER et al. The compounds 6, 8 (page 2177) and 11, 15 (page 2178) and the composition thereof, are encompassed by the instant claims.  Claims 1, 2 lack novelty under PCT Article 33(2) as being anticipated by IDDON et al. The compounds 24, 25 (page 1085) are encompassed by the instant claims.  Claims 2-5, 7-21 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant (CR <sup>2</sup> ) <sub>2</sub> -X- (CR <sup>2</sup> ) <sub>2</sub> -V-(R <sup>2</sup> ) <sub>3</sub> substituent wherein n, p, q is not zero and V is not H.  Claims 1-21 meet the criteria set out in PCT Article 33(4), and thus find industrial applicability because the subject matter claimed can be made or used in the pharmaceutical industry as a tyrosine kinase inhibitor useful for treatment of a tyrosine kinase related disorder.  NEW CITATIONS						

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